

L Number	Hits	Search Text	DB	Time stamp
1	9296	rhodamine and (nucleotide or nucleoside)	USPAT; US-PGPUB	2003/07/11 14:32
2	312	(rhodamine and (nucleotide or nucleoside)) and xanthene	USPAT; US-PGPUB	2003/07/11 14:33

EAST  
10/007, 253

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NEWS 19 May 19	Simultaneous left and right truncation added to WSCA
NEWS 20 May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21 Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 22 Jun 06	PASCAL enhanced with additional data
NEWS 23 Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS 24 Jun 25	HSDB has been reloaded
NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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10/ 007,253

FILE 'HOME' ENTERED AT 14:23:08 ON 11 JUL 2003

=> file caplus

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SINCE FILE

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SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 14:23:18 ON 11 JUL 2003

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FILE COVERS 1907 - 11 Jul 2003 VOL 139 ISS 3

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=> file reg

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FULL ESTIMATED COST

0.42

0.63

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STRUCTURE FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7

DICTIONARY FILE UPDATES: 10 JUL 2003 HIGHEST RN 546060-09-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s rhodamine and xanthene

271 RHODAMINE

21983 XANTHENE

10/ 007,253

L1 1 RHODAMINE AND XANTHENE

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

8.84

9.47

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FILE COVERS 1907 - 11 Jul 2003 VOL 139 ISS 3

FILE LAST UPDATED: 10 Jul 2003 (20030710/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1 and (nucleotide? or nucleoside?)

315 L1

372179 NUCLEOTIDE?

49875 NUCLEOSIDE?

L2 0 L1 AND (NUCLEOTIDE? OR NUCLEOSIDE?)

=> s l1 and (label or conjugate?)

315 L1

51144 LABEL

154016 CONJUGATE?

L3 2 L1 AND (LABEL OR CONJUGATE?)

=> s l1 and (label? or conjugate?)

315 L1

387608 LABEL?

154016 CONJUGATE?

L4 4 L1 AND (LABEL? OR CONJUGATE?)

=> d l4 1- ibib abs hitstr

YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:92392 CAPLUS

DOCUMENT NUMBER: 138:156109

TITLE: Acid-developed water-insoluble azo dyes for marking of commercial petroleum products

INVENTOR(S): Smith, Michael J.; Desai, Bharat; Frederico, Justin J.

PATENT ASSIGNEE(S): United Color Manufacturing, Inc., USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

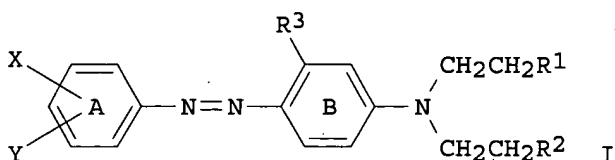
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6514917	B1	20030204	US 2000-588501	20000607
PRIORITY APPLN. INFO.:			US 2000-588501	20000607
OTHER SOURCE(S):			MARPAT 138:156109	
GI				



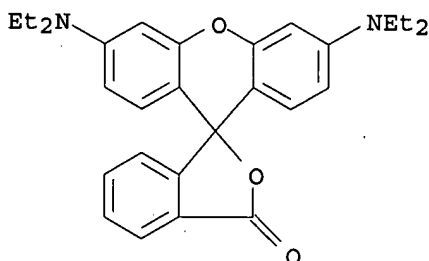
AB Markers for com. petroleum products, sol. in the org. phase (i.e., the petroleum product), are combined with a non-aq. org. acid, (esp. dodecylbenzenesulfonic acid and org. phosphoric acids) to develop a detectable color so that the source and legality of the petroleum product can be established. The markers are aryl azo compds., of general structure A-N=N-B-N(C)-R, in which A, B, and C are independent aryl (Ph or naphthyl) groups, that can optionally be substituted by halogens, nitro, alkyl, alkoxy, hydroxyl, carboxylate ester, carboxamide, or sulfonamide groups; and R = H or C1-20-alkyl. Specifically, the markers have the general structure I, in which X and Y are N-alkylsulfonamide or other substituents that do not impart significant water soly. to the mol.; R1 and R2 = H, D, or substituted OH; and R3 = alkyl, alkoxy, or acylamino. The markers can be quant. identified by visible spectroscopy or spectrofluorimetry, or can be isotopically labeled (for addnl. detection).

IT 509-34-2, C.I. Solvent Red 49

RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(dye marker; acid-developed water-insol. azo dyes for marking of com. petroleum products)

RN 509-34-2 CAPLUS

CN Spiro[isobenzofuran-1(3H),9']-[9H]xanthen]-3-one, 3',6'-bis(diethylamino)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:227951 CAPLUS

DOCUMENT NUMBER: 110:227951

TITLE: Biological photocathodes

AUTHOR(S): Griffith, O. Hayes; Habliston, Douglas L.; Birrell, G.

BRUCE; Skoczylas, Walter P.; Hedberg, Karen K.  
 CORPORATE SOURCE: Inst. Mol. Biol., Univ. Oregon, Eugene, OR, 97403, USA  
 SOURCE: Proceedings of the National Academy of Sciences of the  
 United States of America (1989), 86(6), 1826-30  
 CODEN: PNASA6; ISSN: 0027-8424

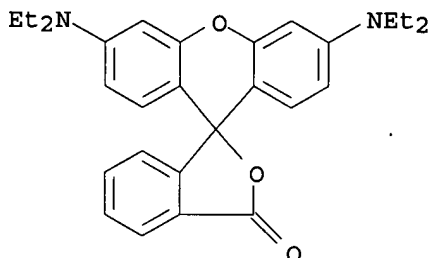
DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Biol. surfaces emit electrons when subjected to UV light. This emission is increased greatly after exposure to Cs vapor. Increases from 2 to 3 orders of magnitude are obsd., depending on the biochems. present. Heme and chlorophyll exhibit unusually high photoemission currents, which are increased further after cesiation. Photoemission from proteins and lipid is much less but also is increased by exposure to Cs. The formation of photocathodes with Cs greatly increases the practical magnifications attainable in photoelectron microscopy of org. and biol. specimens. Photoelectron micrographs taken at magnifications .gtoreq. .times. 100,000 of chlorophyll-rich thylakoid membranes and of colloidal gold-labeled cytoskeleton preps. of cultured epithelial cells demonstrate the improvement in magnification. The selectivity and stability of the photocathodes suggest the possibility of detecting chromophore-binding proteins in membranes and the design of photoelectron labels for tagging specific sites on biol. surfaces.

IT 509-34-2, Rhodamine B base  
 RL: ANST (Analytical study)  
 (photoemission of, cesium enhancement of, as photoelectron label)

RN 509-34-2 CAPLUS

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-bis(diethylamino)-(9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:497632 CAPLUS

DOCUMENT NUMBER: 107:97632

TITLE: Scale-preventing coatings for vinyl chloride polymer manufacture

INVENTOR(S): Koyanagi, Shunichi; Kitamura, Hajime; Shimizu, Toshihide; Kaneko, Ichiro

PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 153 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent

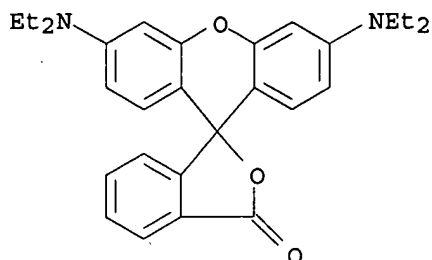
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 172427	A2	19860226	EP 1985-109161	19850722
EP 172427	A3	19870121		
EP 172427	B1	19890705		

EP 172427	B2	19930324		
R: BE, DE, FR, GB, IT, NL, SE				
JP 61031406	A2	19860213	JP 1984-152522	19840723
JP 04030404	B4	19920521		
JP 61034006	A2	19860218	JP 1984-155967	19840726
JP 04030405	B4	19920521		
IN 165525	A	19891104	IN 1985-DE525	19850703
RO 92870	B3	19871130	RO 1985-119582	19850717
CA 1249099	A1	19890117	CA 1985-486934	19850717
ES 545331	A1	19861201	ES 1985-545331	19850718
DD 237514	A5	19860716	DD 1985-278783	19850719
DD 237514	B5	19950601		
FI 8502857	A	19860124	FI 1985-2857	19850722
FI 81816	B	19900831		
FI 81816	C	19901210		
ZA 8505516	A	19860326	ZA 1985-5516	19850722
NO 8502907	A	19860422	NO 1985-2907	19850722
NO 165757	B	19901227		
NO 165757	C	19910410		
HU 39467	A2	19860929	HU 1985-2786	19850722
HU 201786	B	19901228		
CN 85107531	A	19870121	CN 1985-107531	19850722
CN 1006386	B	19900110		
RU 2012565	C1	19940515	RU 1985-3960627	19850722
AU 8545274	A1	19860130	AU 1985-45274	19850723
AU 578109	B2	19881013		
BR 8503491	A	19860415	BR 1985-3491	19850723
PL 146867	B1	19890331	PL 1985-254652	19850723
CZ 278202	B6	19931013	CZ 1985-5441	19850723
CZ 278591	B6	19940316	CZ 1991-3585	19850723
SK 277795	B6	19950308	SK 1985-5441	19850723
SK 277971	B6	19950913	SK 1991-3585	19850723
US 4757124	A	19880712	US 1987-76996	19870721
PRIORITY APPLN. INFO.:			JP 1984-152522	19840723
			JP 1984-155967	19840726
			US 1985-756313	19850718
AB	PVC or vinyl chloride copolymer is prepd. without polymer deposition and scaling on the polymn. reactor walls by applying an antiscaling coating, comprising .gtoreq.1 dye, pigment, arom. or heterocyclic compd. having .gtoreq.5 <b>conjugated</b> .pi. bonds, to the walls of the polymn. reactor and controlling the Cl- concn. in the reaction mixt. to .ltoreq.100 ppm. Thus, a coating contg. 0.5% Basic Black 8 and H2O was coated onto the polished inner wall surface of a 1000-L polymn. reactor, dried at 80.degree. for 10 min, and thoroughly washed with H2O. The coated reactor was charged with 200 kg H2C:CHCl, 400 kg H2O, partially sapond. Poval 44, hydroxypropyl methyl cellulose 36, and tert-butylperoxyneodecanoate 60 g. Polymn. was carried out at 52.degree. for 7 h, and the Cl- concn. was maintained at 13-18 ppm by changing the contents of the MeCl and HCl components contained in the starting monomer. At the end of polymn., the polymer was taken out and the reactor washed internally with H2O at flow rate 0.1 m3/m2-h for 10 min. Inspection of the wall surfaces after washing demonstrated no adhering of PVC scales, vs. thick adhering of scales over the entire polymn. reactor inner wall surface (1000 g/m2) for a control polymn. conducted without an antiscaling coating, and with Cl- concn. during polymn. 280-350 ppm.			
IT	509-34-2, Solvent Red 49 RL: DEV (Device component use); USES (Uses) (scale-preventing coatings contg., for polymn. reactor walls in PVC manuf.)			
RN	509-34-2 CAPLUS			
CN	Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-bis(diethylamino)-(9CI) (CA INDEX NAME)			



L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:451208 CAPLUS

DOCUMENT NUMBER: 101:51208

TITLE: Photoelectron microscopy and photoelectron quantum yields of the fluorescent dyes fluorescein and rhodamine

AUTHOR(S): Griffith, O. Hayes; Houle, William A.; Kongsle, Keith F.; Sukow, Wayne W.

CORPORATE SOURCE: Inst. Mol. Biol., Univ. Oregon, Eugene, OR, 97403, USA

SOURCE: Ultramicroscopy (1983), 12(4), 299-307

CODEN: ULTRD6; ISSN: 0304-3991

DOCUMENT TYPE: Journal

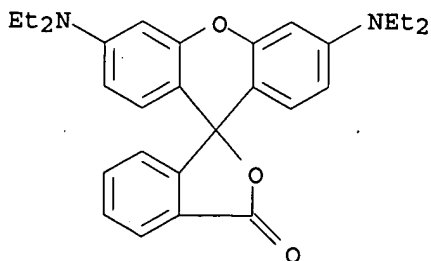
LANGUAGE: English

AB Photoelec. properties of the dyes fluorescein and rhodamine were detd. to assess the usefulness of these compds. as **labels** in photoelectron microscopy. The photoelectron quantum yields were measured over the wavelength range 180-230 nm. At 230 nm the quantum yields for fluorescein disodium salt, rhodamine B free base and rhodamine B HCl salt are .apprx.10<sup>-5</sup> electrons/incident photon. At 180 nm these values rise to .apprx.10<sup>-3</sup> electrons/incident photon. All forms of fluorescein do not have the same quantum yield. The neutral form of fluorescein has a quantum yield an order of magnitude lower than the disodium salt. Beam current measurements were performed on **labeled** and unlabeled proteins to det. the effect of the high light intensity employed in the photoelectron microscope. The initial beam current measurements and the quantum yield curves are consistent and demonstrate that there is significant contrast between **labeled** and unlabeled proteins. However, after several minutes in the photoelectron microscope, the proteins become more photoemissive and the contrast diminishes. This change in contrast explains several puzzling observations in the literature.

IT 509-34-2

RL: PRP (Properties)  
(photoelec. properties of)

RN 509-34-2 CAPLUS

CN Spiro[isobenzofuran-1(3H);9'-[9H]xanthen]-3-one, 3',6'-bis(diethylamino)-  
(9CI) (CA INDEX NAME)



10/ 007,253

=> d his

(FILE 'HOME' ENTERED AT 14:23:08 ON 11 JUL 2003)

FILE 'CAPLUS' ENTERED AT 14:23:18 ON 11 JUL 2003

FILE 'REGISTRY' ENTERED AT 14:23:27 ON 11 JUL 2003

L1 1 S RHODAMINE AND XANTHENE

FILE 'CAPLUS' ENTERED AT 14:24:14 ON 11 JUL 2003

L2 0 S L1 AND (NUCLEOTIDE? OR NUCLEOSIDE?)

L3 2 S L1 AND (LABEL OR CONJUGATE?)

L4 4 S L1 AND (LABEL? OR CONJUGATE?)

=> log y

COST IN U.S. DOLLARS

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TOTAL

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SESSION

FULL ESTIMATED COST

29.73

39.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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SESSION

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-2.60

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